

IN THE CLAIMS:

The following is a complete listing of the claims, and replaces all earlier listings and all earlier versions:

Claim 1. (Currently Amended) An image processing apparatus for generating image data of a document by processing document data representing the document and described in a predetermined structured description language, comprising:
analysis means for analyzing the document data and recognizing font size information contained in the document data, the font size information being information on the font size applied to a character or a character train contained in the document represented by the document data, and for recognizing the character or the character train contained in the document represented by the document data to which the font size information is applied;

instruction input means for entering, via an operation panel, information relating to a standard font size to be used for formatting the document data for printing on at least one print page;

image forming means for executing an image forming process such that data representing the character or the character train recognized by said analysis means is outputted for printing on the at least one print page on which contents of the document data are laid out at the standard font size entered by said instruction input means instead of the font size represented by the font size information contained in the document data; and

printing means for printing data based on print data formed in the image forming process executed by said image forming means,

wherein the document data does not include a concept of page.

Claim 2. (Previously Presented) An apparatus according to claim 1, wherein:

said analysis means calculates a magnification change rate utilizing the font size information contained in the document data, and information relating to the standard font size entered by said instruction input means; and

said image forming means executes the image forming process by changing the magnification of the character or the character train, to which said font size information is applied, by the magnification change rate so as to output for printing on the at least one print page data representing the character or the character train at the standard font size.

Claim 3. (Previously Presented) An apparatus according to claim 1, wherein:

the document data include information for designating a specified font size for a specified character, or a specified character train recognizable by said analysis means; and

said image forming means executes the image forming process such that data representing the specified character or the specified character train, for which the specified font size is designated, is outputted for printing on the at least one print page at the standard font size entered by said instruction input means regardless of the information designating the specified font size.

Claim 4. (Previously Presented) An apparatus according to claim 1, wherein:

the standard font size is designatable by the document data;

said analysis means calculates a magnification change rate utilizing a base font size and the standard font size entered by said instruction input means; and

said image forming means executes the image forming process by applying the magnification change rate to the entire character information contained in the document data in such a manner that data representing a character or a character train, to which the

base font size is applied, is outputted for printing on the at least one print page at the standard font size entered by said instruction input means.

Claim 5. (Previously Presented) An apparatus according to claim 1,
wherein:

said analysis means recognizes the most frequent font size occurring in the document data; and

said image forming means executes the image forming process such that data representing a character or a character train, to which the most frequent font size recognized by said analysis means is applied, is outputted for printing on the at least one print page at the standard font size entered by said instruction input means.

Claim 6. (Previously Presented) An apparatus according to claim 1,
wherein:

said analysis means recognizes a minimum font size in the document data;
and

said image forming means executes the image forming process such that data representing character information formatted for printing on the at least one print page is outputted for printing on the at least one print page a font size at least equal to the standard font size entered by said instruction input means when said analysis means recognizes the minimum font size.

Claim 7. (Previously Presented) An apparatus according to claim 1,
wherein:

the document data includes at least object data representing an image or a table and the character or the character train;

said analysis means detects the size of an image represented by the object data; and

said image forming means executes an image forming process such that data representing the image or the table formatted to fit and be printed on the at least one print page is outputted after said analysis means detects the size of the image and that data representing the character or the character train contained in the document data is outputting for printing on the at least one print page at the standard font size entered by said instruction input means.

Claim 8. (Previously Presented) An apparatus according to claim 1, wherein:

the document data includes at least object data representing an image or a table and the character or the character train;

said analysis means detects the size of the image represented by the object data; and

said image forming means executes the image forming process such that the image, when printed on the at least one print page, is subjected to a magnification change according to the width of the least one print page on which the image is to be printed and that data representing the character or the character train contained in the document data is outputted for printing on the at least one print page at the standard font size entered by said instruction input means.

Claim 9. (Previously Presented) An apparatus according to claim 1, wherein said apparatus communicates with an arbitrary server apparatus for receiving and processing the document data.

Claim 10. (Previously Presented) An apparatus according to claim 1, further comprising selection means for selecting a method of formatting the document data to be printed on the at least one print page according to an instruction of the user, wherein a method for calculating a magnification change rate changing the magnification of the

character or the character train is determined according to the result of the selection by said selection means.

Claim 11. (Previously Presented) An apparatus according to claim 1, further comprising a printing unit configured to print the document in accordance with the image forming process executed said image forming means.

Claim 12. (Original) An apparatus according to claim 1, wherein said apparatus is a printer.

Claim 13. (Currently Amended) An image processing method for generating image data of a document by processing document data, representing the document, described in a predetermined structured description language, comprising:

an analysis step of analyzing the document data and recognizing font size information contained in the document data, the font size information being information on the font size applied to a character or a character train contained in the document represented by the document data, and for recognizing the character or the character train in the document data to which the font size information is applied;

an instruction input step of entering, via an operation panel, information relating to a standard font size to be used for formatting the document data for printing on at least one print page;

an image forming step of executing an image forming process such that data representing the character or the character train recognized by said analysis step is outputted for printing on the at least one print page on which contents of the document data are laid out at the standard font size entered by said instruction input step, instead of the font size represented by the font size information contained in the document data; and

a printing step of printing data based on print data formed in the image forming process executed in said image forming step,

wherein the document data does not include a concept of page.

Claim 14. (Previously Presented) A method according to claim 13,
wherein:

said analysis step calculates a magnification change rate utilizing the font size information indicated by specified character information contained in the document data, and information relating to the standard font size entered by said instruction input step; and

said image forming step executes an image forming process such that data representing a character or a character train, indicated by the specified character information is outputted for printing on the at least one physical sheet at a font size changed by the magnification change rate calculated in said analysis step.

Claim 15. (Previously Presented) A method according to claim 13,
wherein:

the document data include information for designating a specified font size for a specified character or a specified character train recognized by said analysis step; and

said image forming step executes the image forming process such that data representing the character or the character train, for which the specified font size is designated, is outputted for printing on the at least one print page at the standard font size entered by said instruction input step regardless of the information designating the specified font size.

Claim 16. (Previously Presented) A method according to claim 13,
wherein:

the standard font size is designatable by the document data;

said analysis step calculates a magnification change rate utilizing a base font size and the standard font size entered by said instruction input step; and

said image forming step is executed by applying the magnification change rate to the entire character information contained in the document data such that data representing a character or a character train, to which the base font size is applied, is outputted for printing on the at least one print page at the standard font size entered by said instruction input step.

Claim 17. (Previously Presented) A method according to claim 13, wherein:

said analysis step recognizes a minimum font size in the document data; and
said image forming step executes the image forming process such that data representing character information formatted for printing on the at least one print page is outputted for printing on the at least one print page at a font size at least equal to the standard font size entered by said instruction input step when said analysis step recognizes the minimum font size.

Claim 18. (Previously Presented) A method according to claim 13, wherein:

the document data includes at least object data representing an image or a table and the character or the character train;

said analysis step detects the size of the image represented by the object data; and

said image forming step executes the image forming process such that data representing the image or the table formatted to fit and be printed on the least one print page is outputted after said analysis step detects the size of the image, and that data representing the character or the character train contained in the document data is outputted for printing on the at least one print page at the standard font size entered by said instruction input step.

Claim 19. (Previously Presented) A method according to claim 13, wherein:

the document data includes at least object data representing an image or a table and the character or the character train;

said analysis step detects the size of an image represented by the object data;

and

said image forming step executes an image forming process such that the image, when printed on the at least one print page, is subjected to a magnification change according to the width of the at least one print page on which the image is to be printed and that data representing the character or the character train contained in the document data is outputted for printing on the at least one print page at the standard font size entered by said instruction input step.

Claim 20. (Previously Presented) A method according to claim 13, further comprising an acquisition step of communicating with an arbitrary server apparatus for receiving and processing the document data.

Claim 21. (Previously Presented) A method according to claim 13, further comprising a selection step of selecting a method of formatting the document data to be printed on the print page according to an instruction of the user, wherein a calculation method for calculating a magnification change rate changing the magnification of the character or character train is determined according to the result of the selection by said selection step.

Claim 22. (Previously Presented) A method according to claim 13, image forming process executed in said image forming step.

Claim 23. (Original) A method according to claim 13, wherein said method is used in a printer.

Claim 24. (Currently Amended) A computer readable memory medium storing a program for causing a computer to execute an image processing method for generating image data of a document by processing document data representing the document and described in a predetermined structured description language, the method comprising:

an analysis step of analyzing the document data and recognizing font size information contained in the document data, the font size information being information on the font size applied to a character or a character train contained in the document represented by the document data, and recognizing the character or the character train in the document represented by the document data to which the font size information is applied;

an instruction input step of entering, via an operation panel, information relating to a standard font size to be used for formatting the document data for printing on at least one print page;

an image forming step of executing an image forming process such that data representing the character or the character train recognized by said analysis step is outputted for printing on the at least one print page on which contents of the document data are laid out at the standard font size entered by said instruction input step, instead of the font size represented by the font size information contained in the document data; and

a printing step of printing data based on print data formed in the image forming process executed in said image forming step,

wherein the document data does not include a concept of page.

Claims 25 - 37. (Canceled).

Claim 38. (Previously Presented) An image processing method according to claim 19, further comprising a format process step for scaling each character in the document to a base character size when data representing the document is outputted for printing on the at least one print page in said image forming step, based on a font size designated in print set information and the standard font size inputted by said instruction input step.

Claims 39 and 40. (Canceled).

Claim 41. (Currently Amended) An image processing apparatus for generating image data of a structured document by processing document data, representing the structured document, described by a predetermined structured description language, comprising:

image forming means for executing an image forming process such that data representing a character or a character train contained in the document data is outputted for printing on at least one print page on which contents of the document data are laid out at a font size entered via an operation panel of said image processing apparatus regardless of

information for designating a font size, set for the character information in the document data representing the structured document,

wherein the document data does not include a concept of page.

Claims 42 and 43. (Canceled).

Claim 44. (Previously Presented) An apparatus according to claim 41, wherein information designating the font size and set for a character in the structured document is described by tag information designating the font size in HTML or XML.

Claim 45. (Currently Amended) An image processing method for generating image data of a structured document by processing document data, representing the structured document, described by a predetermined structured description language, comprising:

an image forming step of executing an image forming process such that data representing a character or a character train contained in the document data is outputted for printing on at least one print page on which contents of the document data are laid out at a font size entered via an operation panel of the image processing apparatus regardless of information for designating a font size, set for the character information in the document data representing the structured document,

wherein the document data does not include a concept of page.

Claims 46- 48. (Canceled).